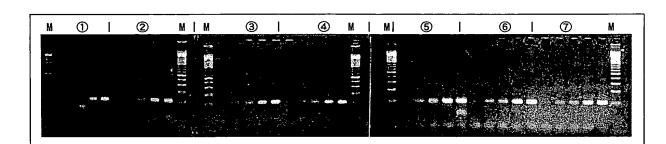
Inventor: KAMATA ET AL.
Docket No.: 10873.1416USWO
Title: METHOD OF EFFECTING LYSIS OF ACID-FAST BACTERIA AND METHOD OF
PERFORMING GENE AMPLIFICATION OR DETECTION THEREWITH
Attorney Name: DOUGLAS P. MUELLER

Phone No.: 612.332.5300

Sheet 1 of 3



- \* The mark "M" indicates a 100 bp ladder molecular weight marker.
- \* In each of the regions ① to ⑦, the dilution factors of the samples are  $10^{-4}$ ,  $10^{-3.5}$ ,  $10^{-3}$ ,  $10^{-2.5}$ , and  $10^{-2}$  from the left of the lane.
- ① Samples only heat-treated in TE-Triton reagent.
- ② Samples treated with Lipase G "AMANO" 50 and then heat-treated in TE-Triton reagent. Lipase concentration: 100 units/ml
- ③ Samples treated with Lipase G "AMANO" 50 and then heat-treated in TE-Triton reagent. Lipase concentration: 500 units/ml
- ④ Samples treated with Lipase G "AMANO" 50 and then heat-treated in TE-Triton reagent. Lipase concentration: 1,000 units/ml
- ⑤ Samples treated with Lipase AY "AMANO" 30G and then heat-treated in TE-Triton reagent. Lipase concentration: 100 units/ml
- © Samples treated with Lipase AY "AMANO" 30G and then heat-treated in TE-Triton reagent. Lipase concentration: 500 units/ml
- ② Samples treated with Lipase AY "AMANO" 30G and then heat-treated in TE-Triton reagent. Lipase concentration: 1,000 units/ml

FIG. 1

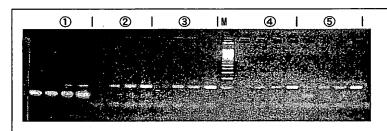
1/3

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PERFORMING GENE AMPLIFICATION OR DETECTION THEREWITH Attorney Name: DOUGLAS P. MUELLER

Phone No.: 612.332.5300

10/500435



- \* The mark "M" indicates a 100 bp ladder molecular weight marker.
- \* In each of the regions ① to ⑦, the dilution factors of the samples are  $10^{-4}$ ,  $10^{-3.5}$ ,  $10^{-3}$ , and  $10^{-2.5}$  from the left of the lane.
- 1 Samples subjected to lipase treatment and heat treatment simultaneously in mixed reagent.
- ② Samples treated with mixed reagent containing Lipase AY "AMANO" 30G and TE-Triton reagent. 45°C, 10 min → 96°C, 10 min
- 3 Samples treated with mixed reagent containing Lipase AY "AMANO" 30G and TE-Triton reagent. 45°C, 30 min → 96°C, 10 min
- 4 Samples treated with Lipase AY "AMANO" 30G at 37°C for 10 min and then heat-treated at 96°C for 10 min after adding TE-Triton reagent.
- ⑤ Samples treated with Lipase AY "AMANO" 30G at 37°C for 10 min and then heat-treated at 96°C for 10 min after adding TE-Triton reagent.

FIG. 2

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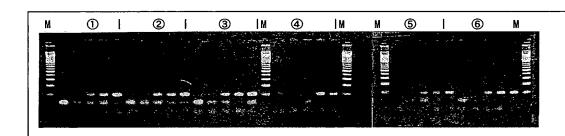
PERFORMING GENE AMPLIFICATION OR DETECTION THEREWITH

Attorney Name: DOUGLAS P. MUELLER

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- \* The mark "M" indicates a 100 bp ladder molecular weight marker.
- \* In each of the regions ① to ⑦, the dilution factors of the samples are  $10^{-4.5}$ ,  $10^{-4}$ ,  $10^{-3.5}$ ,  $10^{-3}$ , and  $10^{-2.5}$  from the left of the lane.
- ① to ③: Samples treated with mixed reagent containing Lipase AY "AMANO" 30G and TE-Triton reagent. 45°C, 10 min  $\rightarrow$  96°, 10 min (in the presence of EDTA)
- 4 to 6: Samples treated with mixed reagent containing Lipase AY "AMANO" 30G and Tris-triton reagent. 45°C,  $10 \min \rightarrow 96$ °,  $10 \min$  (in the absence of EDTA)

FIG. 3